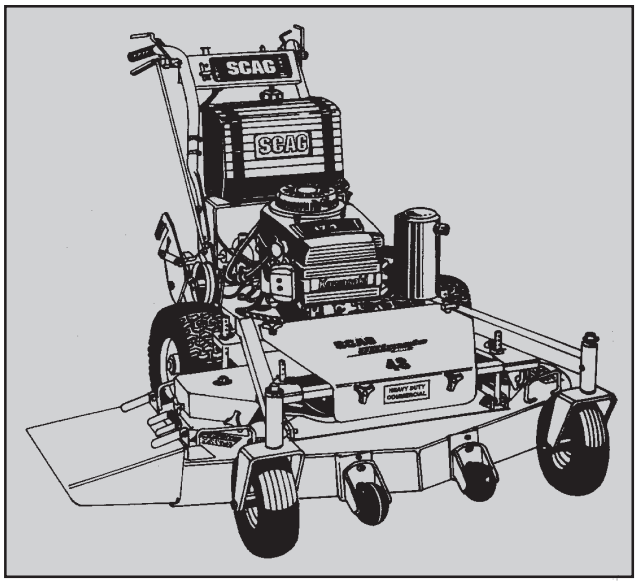
SCAG®
POWER EQUIPMENT

OPERATOR'S MANUAL

MODEL SWU



THIS MANUAL CONTAINS THE OPERATING INSTRUCTIONS AND SAFETY INFORMATION FOR YOUR SCAG MOWER. READING THIS MANUAL CAN PROVIDE YOU WITH ASSISTANCE IN MAINTENANCE AND ADJUSTMENT PROCEDURES TO KEEP YOUR MOWER PERFORMING TO MAXIMUM EFFICIENCY. THE SPECIFIC MODELS THAT THIS BOOK COVERS ARE CONTAINED ON THE INSIDE COVER. BEFORE OPERATING YOUR MACHINE, PLEASE READ ALL THE INFORMATION ENCLOSED.

PART NUMBER 03066

WARNING:

FAILURE TO FOLLOW SAFE OPERATING PRACTICES MAY RESULT IN SERIOUS INJURY.

* Keep all shields in place, especially the grass discharge chute.
* Before performing any maintenance or service, stop the machine and remove the spark plug wire and ignition key.
* If a mechanism becomes clogged, stop the engine before cleaning.
* Keep hands, feet and clothing away from power-driven parts.
* Read this manual completely as well as other manuals that came with your mower.
* Keep others off the tractor (only one person at a time)

REMEMBER - YOUR MOWER IS ONLY AS SAFE AS THE OPERATOR!

Hazard control and accident prevention are dependent upon the awareness, concern, prudence, and proper training of the personnel involved in the operation, transport, maintenance, and storage of the equipment.

This manual covers the operating instructions and illustrated parts list for:

SWU36-15KH with a serial number of 4750001 to 4759999
SWU48-17KA with a serial number of 4760001 to 4769999

Always use the entire serial number listed on the serial number tag when referring to this product.

SCAG®
POWER EQUIPMENT

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SCAG POWER EQUIPMENT

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INTRODUCTION

Your mower was built to the highest standards in the industry. However, the prolonged life and maximum efficiency of your mower depends on you following the operating, maintenance and adjustment instructions in this manual.

We encourage you to contact your dealer for repairs. All Scag dealers are informed of the latest methods to service this equipment and provide prompt and efficient service in the field or at their service shop. They carry a full line of Scag service parts.

A replacement Operator's Manual is available from your Scag Servicing Dealer or by contacting Scag Power Equipment, Service Department at P.O. Box 152, Mayville, WI 53050. Please indicate the complete model and serial number of your Scag product.

USE OF OTHER THAN ORIGINAL SCAG REPLACEMENT PARTS WILL VOID THE WARRANTY.

The "Right" and "Left", "Front" and "Rear" of the machine are referenced from the operator's perspective when in the normal operating position and facing the forward travel direction.

GENERAL SAFETY INSTRUCTIONS

READ THIS OPERATOR'S MANUAL and instructions furnished with attachments.

Perform only those maintenance procedures described in this manual. If major repairs are ever needed or assistance is desired, contact an Authorized Scag Dealer. To ensure optimum performance and safety, always purchase genuine SCAG replacement parts and accessories.

Your safety and the safety of others depends significantly upon your knowledge and understanding of all correct operating practices and procedures of this machine.

SIGNAL WORDS

This symbol means **"Attention! Become Alert! Your Safety is Involved!".** The symbol is used with the following signal words to attract your attention to safety messages found on the decals and throughout this manual. The message that follows the symbol contains important information about safety. To avoid injury and possible death, carefully read the message! Be sure to fully understand the causes of possible injury or death.

Signal Word:

It is a distinctive word on safety decals and throughout this manual that alerts the viewer to the existence and relative degree of the hazard.

DANGER:

The signal word "DANGER" denotes that an extremely hazardous situation exists on or near the machine that could result in high probability of death or irrepairable injury if proper precautions are not taken.

WARNING:

The signal word "WARNING" denotes that a hazard exists on or near the machine that can result in injury or death if proper precautions are not taken.

CAUTION:

The signal word "CAUTION" is a reminder of safety practices on or near the machine that could result in personal injury if proper precautions are not taken.

BEFORE OPERATING

1. Know the controls and how to stop quickly.

2. Do not allow children to operate the machine. Do not allow adults to operate the machine without proper instruction.

3. Remove all debris or other objects that might be picked up and thrown by the cutter blades. Keep all bystanders away from the mowing area.

4. Keep all shields, safety devices, and decals in place. If a shield, safety device or decal is defective or damaged, repair or replace it before operating. Also, check all nuts, bolts and screws for proper tightness, to assure the machine is in safe operating condition.

5. Do not operate the machine while wearing sandals, tennis shoes, sneakers or shorts. Also, do not wear loose fitting clothing which could get caught in moving parts. Always wear long pants and substantial shoes. Wearing safety glasses and safety shoes is advisable and required by some local ordinances and insurance regulations.

6. Fill the fuel tank with clean, fresh gasoline, with a minimum octane rating of 87. Avoid spilling gasoline. Gasoline is highly flammable, handle it carefully.
   A. Use an approved gasoline container.
   B. Do not fill the tank while the engine is hot or running.
   C. Do not smoke while handling gasoline.
   D. Fill the fuel tank outdoors and up to approximately 1" (25 mm) below the bottom of the filler neck.
   E. Wipe up any spilled gasoline.

7. Before attempting to start the engine, shift the transmission into neutral, move the blade engagement switch to the OFF position, and move the neutral latches to neutral.

WHILE OPERATING

1. Start the engine when the neutral latches are in the neutral lock position, the cutter blades are disengaged, and the transmission is in neutral.

2. Do not run the engine in a confined area without adequate ventilation. Exhaust fumes are hazardous and could possibly be deadly.

3. Using the machine demands attention. To prevent loss of control:
   A. Mow only in daylight or when there is good artificial light.
   B. Watch for holes or other hidden hazards.
   C. Do not drive close to a drop-off, ditch, creek bank, or other hazard.
   D. Reduce speed when making sharp turns and when turning on hillsides.
   E. Always be sure of your footing. Keep a firm hold on the handles and walk---never run.
   F. Do not operate where conditions are slippery.

4. The discharge chute must always be installed and in the down position on the side discharge cutter deck except when the Scag optional grass catcher or mulching plate are properly installed. If the discharge area should plug, shut the engine off and wait for all movement to stop before removing the obstruction.

5. Disengage the blades and wait for them to stop before crossing gravel drives, walks or roads.

6. Shut the engine off and wait until the blades come to a complete stop before removing the grass catcher container.

7. Never raise the cutter deck while the blades are rotating.

8. Always park the mower and/or start the engine on a level surface.

9. If the cutting blades should strike a solid object or the equipment should start to vibrate abnormally, stop the engine, disconnect the spark plug wire, and check immediately for the cause. Vibration is generally a warning of trouble. Check the machine for damaged or defective parts. Repair any damage before starting the engine or operating the cutter deck. Be sure the blades are in good condition and the blade bolts are tight.

10. Reduce speed and exercise extreme caution on slopes and in sharp turns to prevent tipping or loss of control. Be especially cautious when changing directions on slopes.

⚠WARNING:

DO NOT operate on steep slopes. To check a slope, attempt to back up it (with the cutter deck down). If the machine can back up the slope without the wheels slipping, reduce speed and use extreme caution. ALWAYS FOLLOW OSHA APPROVED OPERATION.

11. Do not touch the engine or muffler while the engine is running or soon after it is stopped. These areas could be hot enough to cause a burn.

12. Before leaving the operator's position or leaving the mower unattended, shift the transmission into neutral, place the neutral latches in the neutral lock position, and move the blade engagement switch to OFF. Shut the engine OFF and remove the key.

13. Do not pass or stand on the grass discharge side of any mower with the engine running. Stop operation when another person approaches.

14. Use only Scag approved riding attachments.

    Scag Approved Riding Attachments:
    RS-2
    RS-ZT
    Using unapproved attachments, (especially "stand-up" riding attachments) may be hazardous.

MAINTENANCE AND STORAGE

1. Disconnect the spark plug wire from the spark plug to prevent accidental starting of the engine when servicing, adjusting or storing the machine.

2. If the mower must be tipped to perform maintenance or adjustment, remove the battery if it has one, drain the gasoline from the fuel tank and the oil from the crankcase.

3. To reduce potential fire hazard, keep the engine free of excessive grease, grass, leaves and accumulations of dirt.

4. Be sure the machine is in safe operating condition by keeping nuts, bolts, and screws tight. Check the blade mounting bolts and nuts frequently to be sure they are tightened.

5. If the engine must be running to perform a maintenance adjustment, keep hands, feet, clothing and other parts of the body away from the cutter deck blades and other moving parts.

6. Do not overspeed the engine by changing governor settings. To be sure of safety and accuracy, have an authorized dealer check maximum engine speed with a tachometer.

7. The engine must be shut off before checking the oil or adding oil to the crankcase.

8. Allow the engine to cool before storing the mower in any enclosure such as a garage or storage shed. Make sure the fuel tank is empty if the machine is to be stored in excess of 30 days. Do not store the mower near any open flame or where gasoline fumes may be ignited by a spark.

9. Always store gasoline in a safety-approved, red container.

10. Be careful when servicing the battery as it contains acid, which is corrosive and could cause burns to skin and clothing.

11. Batteries release explosive gases when being charged or discharged. Keep batteries away from any source of sparks and/or flame.

INITIAL RUN-IN PROCEDURES (FIRST DAY OF USE OR APPROXIMATELY 10 HOURS)

1. Check the belts for proper tension at 2, 4 and 8 hours. Check for abnormal wear and adjust as needed.

2. Check the steering control rods for neutral adjustment. (See Adjustments, page 6)

3. Check the tires for proper pressure.
   Caster Wheels 25 psi.
   Drive Wheels 15 psi.

4. Check for loose hardware. Tighten as needed.

5. Check the safety switches for proper adjustment:
   * The engine will crank, but not start if the machine is not in neutral.
   * On electric start machines, the engine will not crank if the PTO switch is on.
   * The engine should crank and start if the machine is in neutral and the PTO engagement switch is OFF.

6. Apply lubricant to all the grease fittings. Lubricant was applied at the factory. This is just a precautionary check to make sure that all the fittings have been lubricated properly.

MOWER OPERATION

1. Read and understand the safety instructions before attempting to operate this machine.

2. Before starting the engine:

   * Check the oil level in the engine.
   * Fill the fuel tank with clean, fresh, lead-free gasoline.
   * Open the fuel valve on the bottom of the fuel tank.

-NOTE-

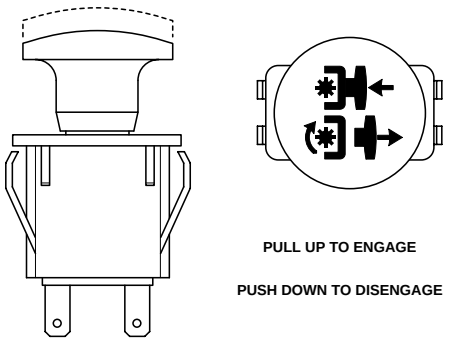
Use gasoline with an octane rating no less than 87.

   * The transmission must be in NEUTRAL.
   * The blade clutch switch must be in the OFF position.
   * The operator's presence levers must be released.
   * The neutral latches must be in the neutral lock position.
   * The key switch must be on.

3. Start the engine:

   * Choke as required. If the engine is cold, pull the choke knob out. When the engine starts, slowly push the choke in. If the engine stalls, repeat the above operation. When the engine is warm, choking may not be necessary.

4. Engage the cutter blades by pulling the blade clutch switch into the ON position. Push the switch to the OFF position to disengage the cutter blades.



-NOTE-

When the PTO is engaged or (possibly) disengaged, a squealing sound from the underside of the machine is normal. It is caused by the electric clutch plates meshing as the cutter blades come up to speed. For best equipment life, engage the clutch with the engine at 1/2 throttle, not under full load.

⚠ WARNING:

To avoid serious bodily injury and damage to the transmission, the machine must be at a full stop before shifting between gears or shifting between forward and reverse.

5. Shift the transmission into gear for the desired mowing speed.

-NOTE-

Top speed is suggested only for transport!

6. While squeezing the steering brake levers with both hands, release both neutral latches.

7. When the steering brake levers are released, the machine will travel straight. To make a right turn, squeeze the RH lever. To turn left, squeeze the LH lever.

8. TO STOP, squeeze both levers, lock the neutral latches, and shift the transmission into neutral.

CUTTER DECK BELT ADJUSTMENTS

Due to a spring-loaded idler system, there is no adjustment necessary for the cutter deck belts. The 36" cutter deck has one spring-loaded idler. The 48" cutter deck has two spring loaded idlers.

TRANSMISSION DRIVE BELT

The transmission drive belt on the SWU belt drive machine has a spring-loaded idler system and needs no adjustment. If you find that the transmission slips, see your local Scag Servicing Dealer for service.

DRIVE CONTROL ADJUSTMENTS

1. Adjust the steering control rods so that there is approximately 3/4" clearance from the bottom of the rod to the bottom of the neutral latch slot when in the drive position. (See figure 1)

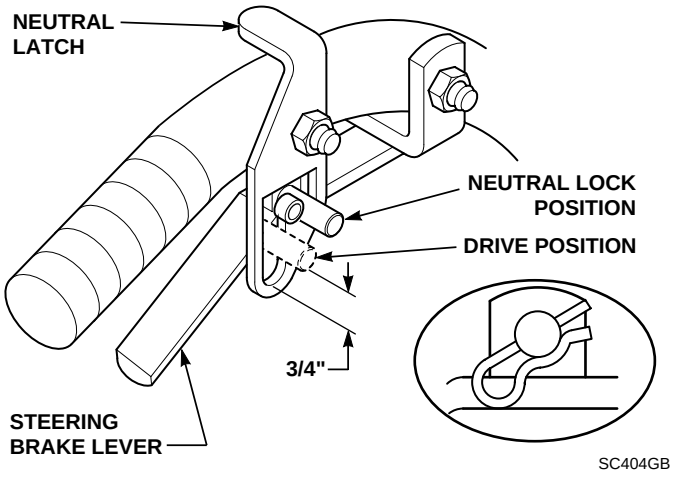


Figure 1. Steering Control Rod Adjustment

2. Adjust the steering brake rods so that the brakes do not apply until the steering levers are pulled tight to the handles. When the steering levers are locked in the neutral position the machine should move freely.

"ADJUST-A-GRIP SETTINGS"

"Adjust-A-Grip," with three settings, allows hand force adjustment in the field, with no tools required. To operate the "Adjust-A-Grip", pull back on the handle and move the lever up or down depending on the amount of belt force needed (See Figure 2, page 6).

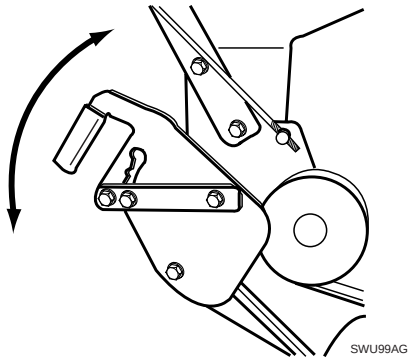


Figure 2. "Adjust-A-Grip"

Cutting conditions will determine what setting is needed for the Adjust-A-Grip" and your machine. If the drive belts slip due to high moisture conditions, the tension may need to be increased. On the other hand, if the day is dry and you are cutting on flat terrain the tension may be decreased. To change the settings:

1. Pull back and move the lever up to reduce tension on the drive belt.

2. Pull back and move the lever down to increase tension on the drive belt.

ADJUSTING CUTTING HEIGHT

The mower deck can be adjusted from a height of 1-inch to 4-1/2 inches at 1/2-inch intervals. To adjust the cutting height:

⚠ WARNING:

Do not adjust the cutting height with the mower blades rotating. Shut off the engine and remove the ignition key. Bodily injury could occur from the rotating blades.

1. Shut off the engine and remove the ignition key.

2. Remove the two hairpins from the adjusting pins on one side of the cutter deck (Figure 3).

3. Lift or lower the deck to the desired cutting height and reinstall the hairpins. A deck height decal is located on the deck mounting frame as an aid in adjusting the deck to the desired height.

4. Repeat the above process on the other side of the cutter deck.

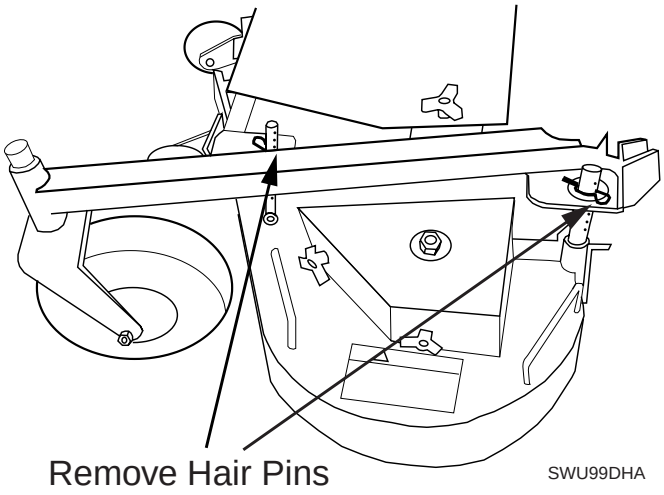


Figure 3. Cutting Height Adjustment

CUTTER BLADES

Do not sharpen beyond 1/3 of the width of the blade. (See figure 3)

-NOTE-

Dress the blade with a file. Using a wheel grinder may burn the blade. Check the balance of the blade. If blades are out of balance, vibration and premature wear of spindle assembly can occur. See your authorized Scag dealer for blade balancing or special tools if you choose to balance your own blades.

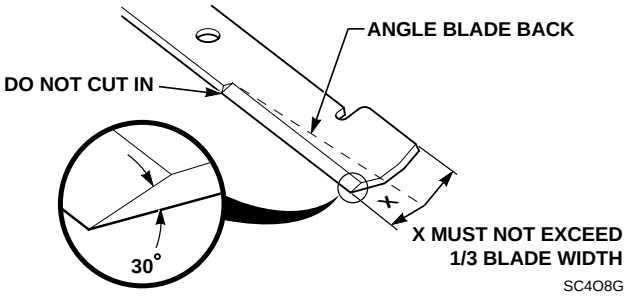


Figure 4. Blade Sharpening

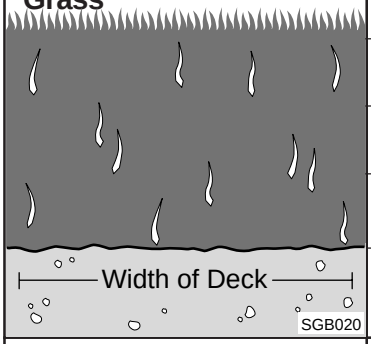
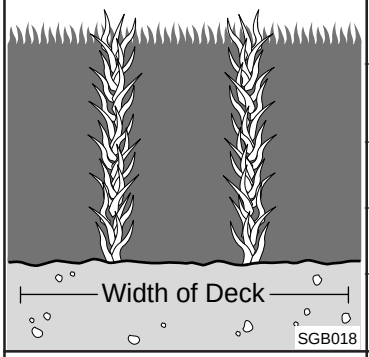
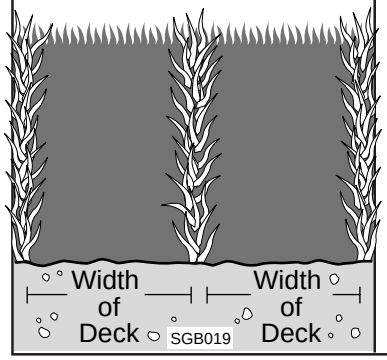
LUBRICATION & MAINTENANCE

+ Grease spindle until grease comes out the relief valve.

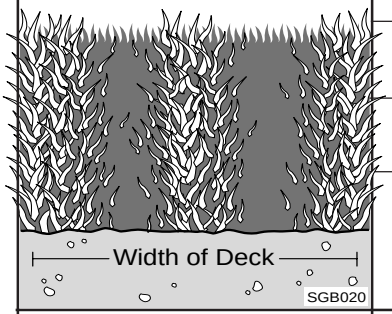
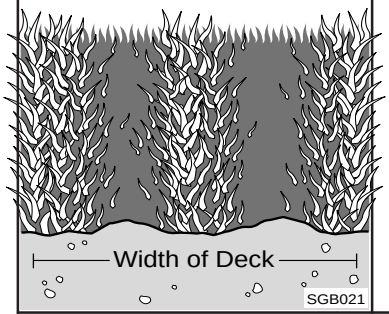
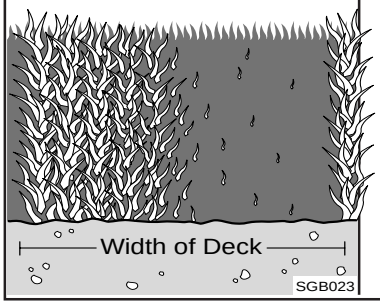
Compatible Greases:
- Lidok EP #2 (found at industrial shops)
- Ronex MP (Exxon service stations)
- Shell Alvania (Shell service stations)
- Mobilux #2 (Mobil service stations)
- Super Lub M EP #2 (Conoco service stations)

BREAK-IN	8 HOURS (DAILY)	40 HOURS (WEEKLY)	100 HOURS (BIWEEKLY)	500 HRS OR ANNUALLY	PROCEDURE	COMMENTS
X					Check all hardware for proper tightness	
X					Change engine oil and filter at 5 hours	
	X				Check engine oil	Do not over fill
	X				Remove debris from under belt cover	More often if needed
	X				Sharpen cutter blades	More often if needed
	X				Grease spindle bearings	+ US Lithium MP White Grease 2125
	X				Clean air filter	More often if needed
	X				Check belt wear	
	X				Check tire pressure	Add or adjust as required
		X			Change engine oil	See engine mfg. information
			X		Replace air filter	More often if needed
			X		Grease caster wheel bearings	Chassis grease
			X		Grease caster wheel pivot shafts	Chassis grease
			X		Grease drive wheel bearings	Chassis grease
			X		Grease transmission couplers	Chassis grease
			X		Grease idler bracket LH & RH	Chassis grease
			X		Check all hardware for proper tightness	More often if needed
				X	Adjust air gap on electric clutch	Contact your Scag dealer for information about making this adjustment

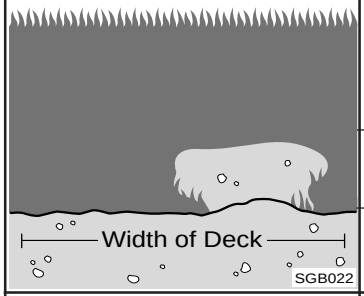
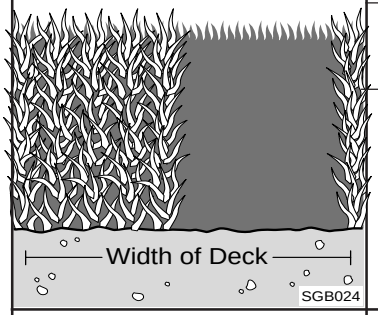
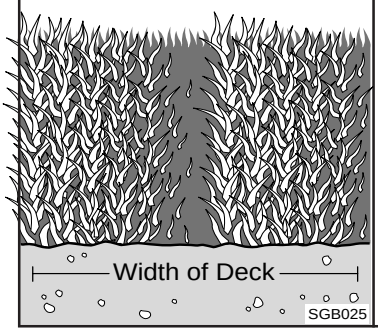
TROUBLESHOOTING CUTTING CONDITIONS

CONDITION	CAUSE	CURE
Stringers - Occasional Blades of Uncut Grass 	Low engine RPM	Run engine at full 3600 RPM
	Ground speed too fast	Slow speed to adjust for conditions
	Wet grass	Cut grass after it has dried out
	Dull blades, incorrect sharpening	Sharpen blades
	Deck plugged, grass accumulation	Clean underside of deck
	Belts slipping	Adjust belt tensions
Streaking - Strips of Uncut Grass in Cutting Path 	Dull, worn blades	Sharpen blades
	Incorrect blade sharpening	Sharpen blades
	Low engine RPM	Run engine at full 3600 RPM
	Belt slipping	Adjust belt tension
	Deck plugged, grass accumulation	Clean underside of deck
	Ground speed too fast	Slow speed to adjust for conditions
	Wet grass	Cut grass after it has dried out
	Bent blades	Replace blades
Streaking - Strips of Uncut Grass Between Cutting Paths 	Not enough overlapping between rows	Increase the overlap of each pass

TROUBLESHOOTING

CONDITION	CAUSE	CURE
Uneven Cut on Flat Ground - Wavy High-Low Appearance, Scalloped Cut, or Rough Contour 	Lift worn off of blade	Replace blade
	Blade upside down	Mount with cutting edge toward ground
	Deck plugged, grass accumulation	Clean underside of deck
	Too much blade angle (deck pitch)	Adjust pitch and level
	Deck mounted improperly	See your authorized SCAG dealer
	Bent spindle area	See your authorized SCAG dealer
	Dull blade	Sharpen blade
Uneven Cut on Uneven Ground - Wavy Appearance, High-Low Scalloped Cut, or Rough Contour 	Uneven ground	May need to reduce ground speed, raise cutting height, and/or change direction of cut
Sloping Ridge Across Width of Cutting Path 	Tire pressures not equal	Check and adjust tire pressure
	Wheels uneven	Check and adjust tire pressure
	Deck mounted incorrectly	See your authorized SCAG dealer

TROUBLESHOOTING

CONDITION	CAUSE	CURE
Scalping - Blades Hitting Dirt or Cutting Very Close to the Ground 	Low tire pressures	Check and adjust pressures
	Ground speed too fast	Slow speed to adjust for conditions
	Cutting too low	May need to reduce ground speed, raise cutting height, change direction of cut, and/or change pitch and level
	Rough terrain	May need to reduce ground speed, raise cutting height, and/or change direction of cut
	Ground speed too fast	Slow speed to adjust for conditions
	Wet grass	Cut grass after it has dried out
Step Cut Ridge in Center of Cutting Path 	Blades not mounted evenly	Adjust pitch and level
	Bent blade	Replace blade
	Internal spindle failure	See your authorized SCAG dealer
	Mounting of spindle incorrect	See your authorized SCAG dealer
Slope Cut - Sloping Ridges Across Width of Cutting Path 	Bent spindle mounting area	See your authorized SCAG dealer
	Internal spindle failure	See your authorized SCAG dealer
	Bent deck housing	See your authorized SCAG dealer

TECHNICAL SPECIFICATIONS

MODELS	SWU36-15KH, SWU48-17KA
ENGINE	
General Type:	Heavy duty industrial/commercial
Brand / Model:	Kohler CV15T, Kawasaki FH500V
Horsepower:	Kohler CV15T = 15HP maximum @ 3600 RPM Kawasaki FH500V = 17HP maximum @ 3600RPM
Type:	Kohler = 4 cycle gas, single cylinder, overhead valve, vertical shaft engine Kawasaki = 17HP 4 cycle, air cooled, V twin cylinder, vertical shaft engine
Displacement:	Kohler = 426 cc Kawasaki = 494 cc
Cylinder:	Kohler = 1 cast-iron liner Kawasaki = 2 cast-iron sleeves
Governor:	Mechanical type governor with variable speed control. Settings: Kohler = 3600 rpm (+/-75rpm), idle set at 1200 rpm (+/- 75 rpm) Kawasaki = 3600 rpm(+/- 75rpm), idle set at 1550 rpm (+/- 75 rpm)
Air Cleaner:	Kohler = Large capacity duel element with cyclonic-type air filter Kawasaki = Semi-cyclone type with dual element
Exhaust:	Single canister side mount muffler.
Fuel Pump Group:	Kohler = Mechanical fuel pump with in-line fuel filter Kawasaki = Pulse-type fuel pump with in-line fuel filter
Oil Pump Group:	Kohler = Full pressure lubrication with full flow oil filter and positive displacement Gerotor™ oil pump Kawasaki = Full pressure lubrication with oil filter
Starter/Electrical:	Electronic ignition with recoil starter
ENGINE DECK	
Thickness:	7 gauge steel.
Fuel Tank:	5 gallon (19.0 liters) seamless polyethylene.
Drive Wheels/Tires:	15.0 x 6.0-6 two-ply pneumatic tubeless.
Handle Bars:	1-1/4" diameter.
DRIVE SYSTEM	
Type:	Belt drive with twin power belts for increased friction to pulley surface and "Adjust-A-Grip" traction control lever with three settings
Transmissions:	Peerless 5-speed transmission, Model #700-070A with 9 spline coupler shaft
Steering/Travel Control:	Clutch/brake fingertip steering, key lock switch. ("Adjust-A-Grip" design allows minimum hand force to operate controls)
Brakes:	6" drum, band brake, one on each wheel.
Axles:	1"
Wire Harness:	14 gauge wire.
Safety Group:	Hand actuated operator presence system with blade clutch and transmission interlock to engine kill
Forward Speed Range:	1.5 to 7.0 mph
Reverse Speed Range:	3.0 mph

Date of Issue: March, 1999
Specifications Subject to Change Without Notice

TECHNICAL SPECIFICATIONS (CON'T)

CUTTER DECK

Type:	Out-front floating design with anti-scalp rollers.
Construction:	7-gauge (3/16") steel top and skirt with easy clean-out design
True Cutting Width:	36.0 inches (90.2cm), 48.0 inches (122.0cm)
Blade Engagement:	Electric blade engagement clutch with control panel switch
Cutting Height Adjustment:	Manual adjustment 1" to 4-1/2" in 1/2" increments
Cutter Blades:	.204" thick, milled edge, 5150 alloy steel 36" = Two (2) 18" blades 48" = Three (3) 16.5" blades
Discharge Opening:	36" & 48" = Extra wide 11.5"
Caster Wheels:	11 x 4.5-5 smooth-tread flotation, roller bearings with quick pin removal
Spindles:	Cast housing, taper roller bearing, low maintenance with top access grease fitting and grease overfill relief poppet.
Spindle Pulleys:	Cast-iron with easily removed taper hubs
Idler Arm:	Spring-loaded self adjusting with permanent lubrication
Cutter Deck Belts:	B-section with Kevlar® cord.

ADDITIONAL SPECIFICATIONS

OPTIONAL ITEMS/ATTACHMENTS

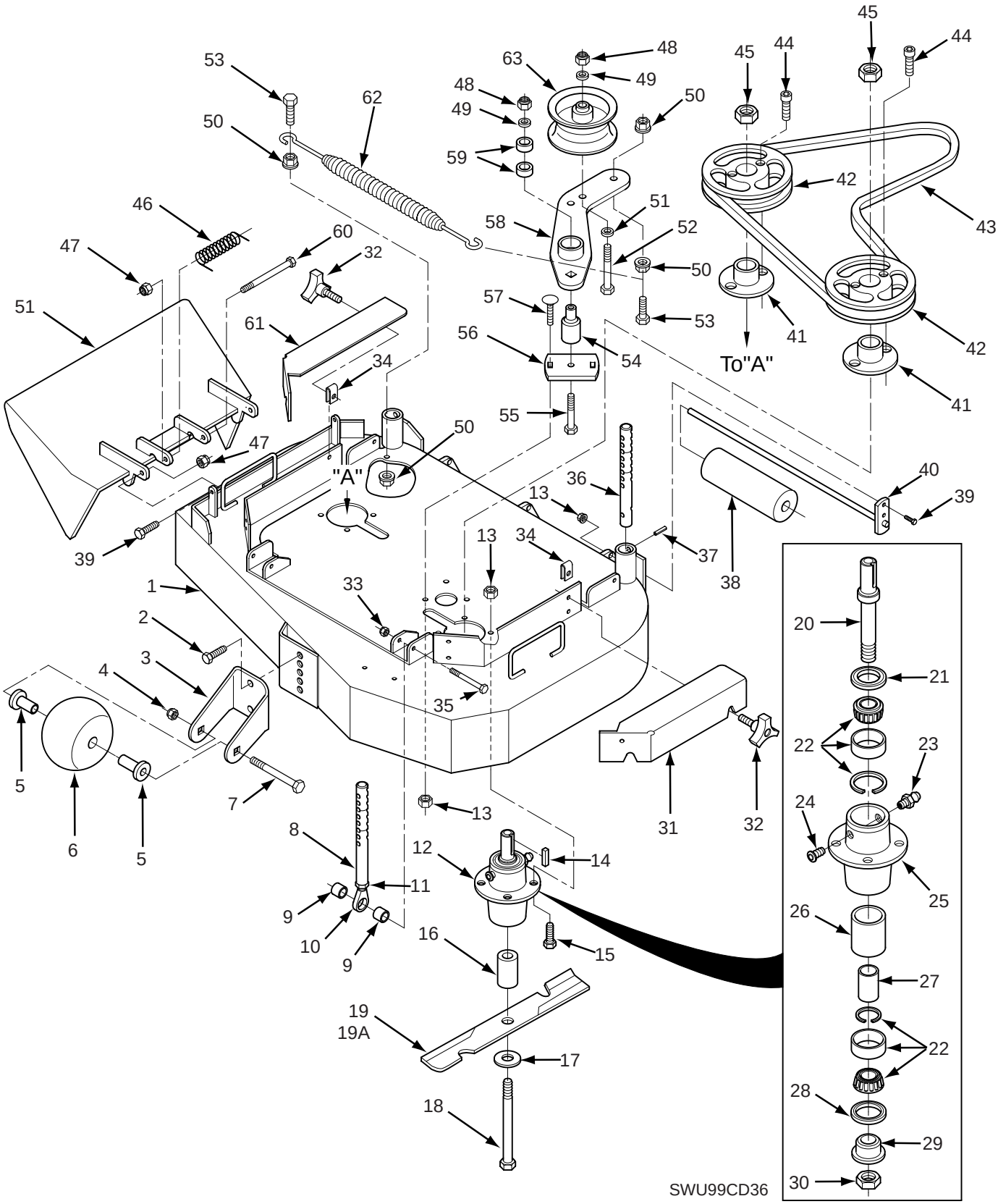
Fabric Grass Catcher:	GC-F4 Grass Catcher with 4 cubic ft. capacity
Metal Grass Catcher:	GC-4D Grass Catcher with 4 cubic ft. capacity and rope pull dump or pickup and dump.
Sulky:	RS-2 Two-Wheel Sulky with padded seat. RS-ZT Two-Wheel Zero-Turn Sulky with padded seat.
Mulching Plate:	Steel plate fits over discharge opening. No blade change or removal required. Installs and removes in the field.

APPROXIMATE DIMENSIONS	SWU36	SWU48
Length:	79.5"	74.0"
Length with grass catcher:	79.5"	74.0"
Tracking Width:	34.75"	34.75"
Width:	48.0"	59.0"
Width (with discharge chute up):	38.0"	49.0"
Width with grass catcher:	56.0"	68.0"
Height:	41.25"	41.25"
Height with grass catcher:	41.25"	41.25"
Weight:	513 lbs.	578 lbs.
Weight with grass catcher:	553 lbs.	618 lbs.

Date of Issue: March, 1999
Specifications Subject To Change Without Notice

NOTES

36" CUTTER DECKS

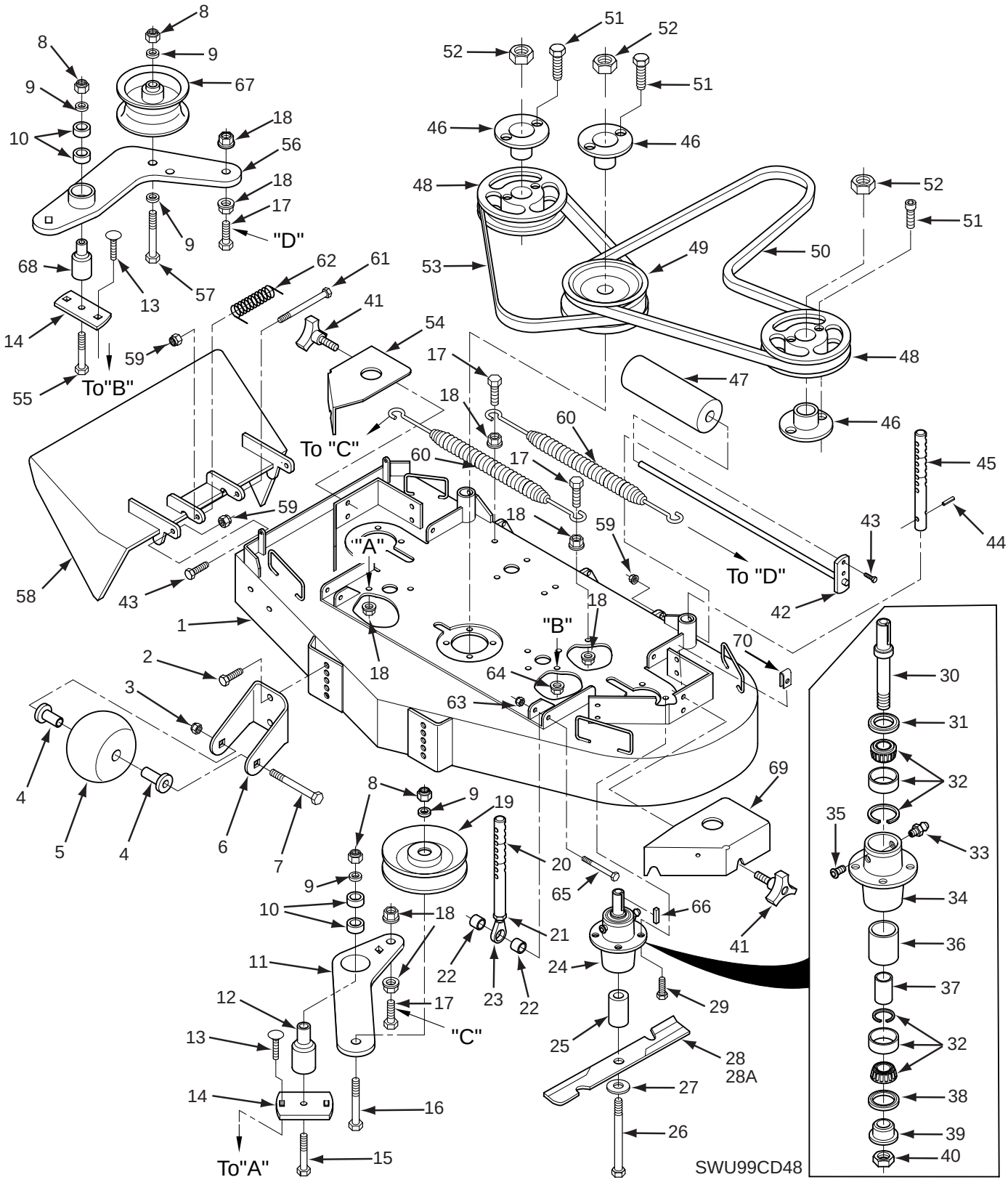


36" CUTTER DECKS

Ref. No.	Part Number	Description
1	461172	Cutter Deck (Includes Decals)
2	04017-27	Capscrew, 3/8-16 x 1.0"Serrated Flange Hex Hd
3	422478	Bracket, Anti-Scalp Wheel
4	04021-05	Lock Nut, 3/8-16 Center Lock
5	48100-15	Bushing, 376 ID Oilite
6	481632	Wheel, Anti-Scalp (Incl. Item 5)
7	04003-26	Bolt, Carriage 3/8-16 x 4.0"
8	481838	Pin Assy., Deck Adj. (Incl. Items 10 & 11)
9	43512	Spacer, Deck Adjustment Pin
10	481539	Rod End, Male 3/8-24 RH Thread
11	04020-25	Nut, 3/8-24 Jam
12	46631	Spindle Assembly
13	04019-03	Nut, 5/16-18 Serrated Flange
14	04063-08	Key,1/4 x 1/4 x 2.0"
15	04001-10	Bolt, Hex Head 5/16-18 x 1.25"
16	43309	Spacer, Spindle
17	04040-10	Flatwasher, 5/8 W
18	04001-41	Bolt, Hex Head 5/8-11 x 9.50"
19	48108	Cutter Blade, 18"
19A	48185	Cutter Blade, 18" Hi Lift
20	43299	Spindle Shaft
21	481024	Seal, Cutter Spindle Top
22	481022	Tapered Bearing Set (Two Bearings W/Race)
23	48114-04	Grease Fitting
24	48677	Relief Fitting, Cutter Spindle
25	43294	Spindle Housing
26	43312	Spacer, Outside
27	43296	Spacer, Inside
28	481025	Seal, Cutter Spindle Bottom
29	43297	Spindle Bushing
30	481035	Nut, Spindle
31	422762	Belt Cover, LH
32	481625-01	Wing Nut, 3/8-16
33	04021-09	Nut, 3/8-16 Elastic Stop
34	04110-03	U-Nut, 3/8-16
35	04001-31	Bolt, Hex Head 3/8-16 x 2.50"
36	43515	Pin, Deck Adj. Rear
37	04060-08	Pin, Sloted Spring 3/16 x 1.50"
38	48038	Guide, Roller
39	04001-09	Bolt, Hex Head 5/16-18 x 1.0"
40	451118	Roller Shaft
41	48926	Tapered Hub
42	48924	Pulley
43	481880	Belt, Cutter Deck
44	04015-14	Capscrew, Socket Head. 1/4-20 x 1.375"
45	04020-09	Hex Nut, 5/8-11
46	481050	Spring, Chute Return
47	04021-10	Hex Nut, 5/16-18 Elastic Stop
48	04021-09	Hex Nut, 3/8-16 Elastic Stop
49	04043-04	Flatwasher, 3/8 (.938 x .391 x .105)
50	04019-04	Nut, 3/8-16 Serrated Flange
51	461054	Discharge Chute
52	04001-51	Capscrew, Hex Head 3/8-16 x 3.75"
53	04001-136	Capscrew, Hex Head 3/8-16 x 1.50"
54	43510	Pivot, Idler - Long
55	04001-62	Capscrew, Hex Head 38/16 x 3.25"
56	422713	Base, Idler Pivot
57	04003-04	Bolt, Carriage 5/16-18 x 1.0"
58	461174	Idler Arm Weldment
59	48224	Ball Bearing
60	04001-108	Bolt, Hex Head 5/16-18 x 4.25"
61	422763	Belt Cover, RH
62	481597	Spring, Deck Idler
63	48550	Pulley, Idler

* Common hardware which should be purchased locally. All bolts are Grade 5 plated, all other fasteners zinc plated.

48" CUTTER DECKS

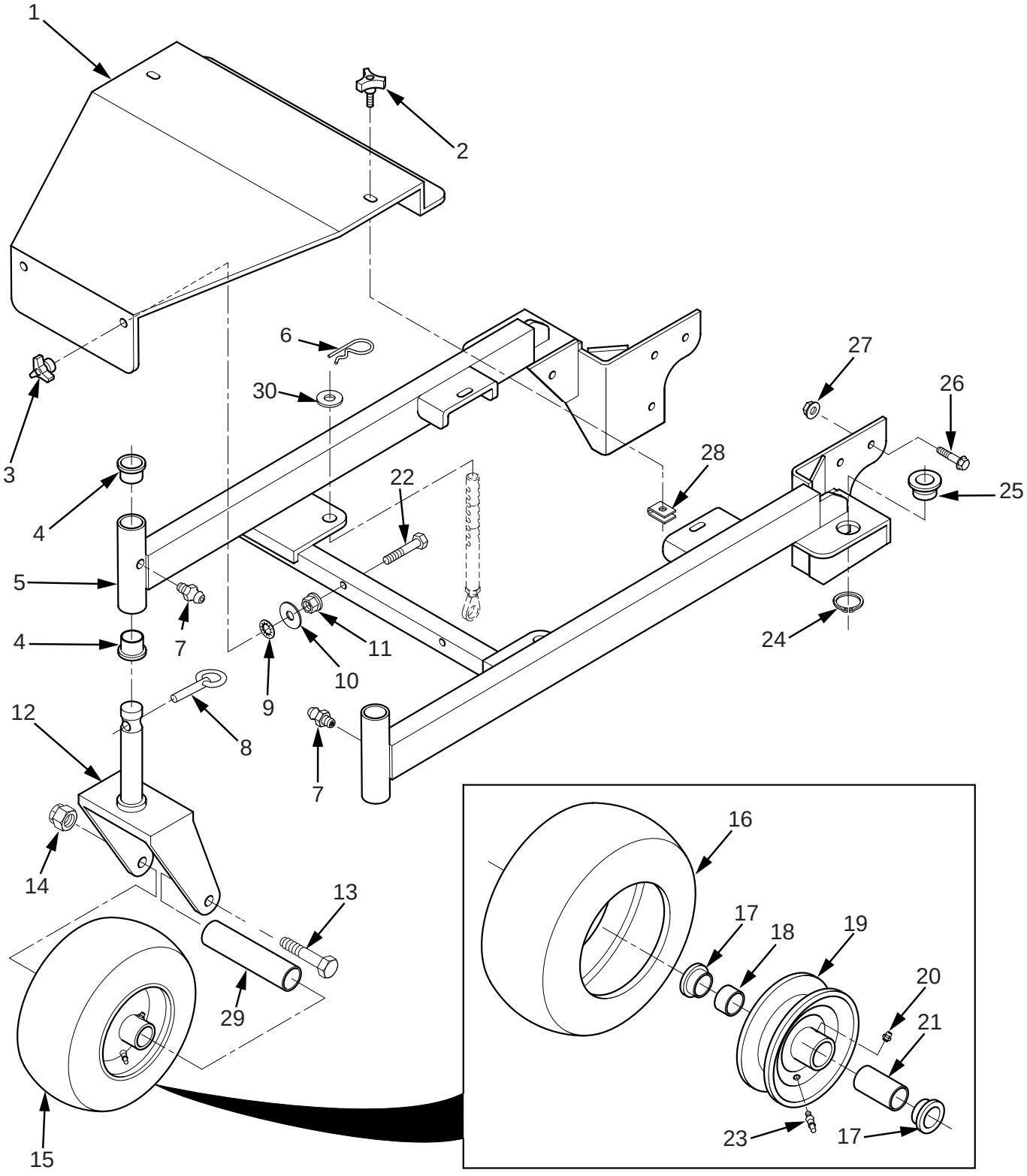


48" CUTTER DECKS

Ref. No.	Part No.	Description
1	461173	Cutter Deck With Decals
2	04017-27	Capscrew, 3/8-16 x 1.0" Serrated Flange
3	04021-05	Lock Nut, 3/8-16 Center Lock
4	48100-15	Bushing, 376 ID Oilite
5	481632	Wheel, Anti-Scalp
6	422478	Bracket, Anti-Scalp Wheel
7	04003-26	Bolt, Carriage 3/8-16 x 4.0"
8	04021-09	Hex Nut, 3/8-16 Elastic Stop
9	04043-04	Flatwasher, 3/8 (.938 x .391 x .105)
10	48224	Ball Bearings
11	461175	Idler Arm RH
12	43503	Pivot, Idle - Short
13	04003-04	Bolt, Carriage 5/16-18 x 1.0"
14	422713	Base, Idler Pivot
15	04001-31	Capscrew, Hex Head 3/8-16 x 2.50"
16	04001-45	Capscrew, Hex Head 3/8-16 x 2.0"
17	04001-136	Capscrew, Hex Head 3/8-16 x 1.50"
18	04019-04	Nut, 3/8-16 Serrated Flange
19	48181	Pulley, Idler
20	481838	Pin Assembly (Incl. 21 & 23)
21	04020-25	Nut, 3/8-24 Jam
22	43512	Spacer, Deck Adjustment Pin
23	481539	Rod End, Male 3/8-24
24	46631	Spindle Assembly
25	43309	Spacer, Spindle
26	04001-41	Bolt,Hex Head 5/8-11 x 9.50"
27	04040-10	Flatwasher, 5/8 W
28	48110	Cutter Blade 16-1/2"
28A	48184	Cutter Blade 16-1/2" Hi Lift
29	04001-10	Bolt, Hex Head 5/16-18 x 1.25"
30	43298	Spindle Shaft
31	481024	Seal, Cutter Spindle - Top
32	481022	Tapered Bearings (Two)
33	48114-04	Grease Fitting
34	43294	Spindle Housing
35	48677	Relief Fitting, Cutter Spindle
36	43312	Spacer Outside
37	43296	Spacer, Inside
38	481025	Seal, Cutter Spindle - Bottom
39	43297	Spindle Bushing
40	481035	Nut, Spindle
41	481625-01	Wing Nut, 3/8-16
42	451118	Roller Shaft
43	04001-09	Bolt, Hex Head 5/16-18 x 1.0"
44	04060-08	Pin, Slotted Spring 3/16 x 1.50"
45	43515	Pin, Deck Adjustment Rear
46	48926	Tapered Hub
47	48038	Guide, Roller
48	48924	Pulley
49	48923	Pulley, 5.75 Double Grove
50	481881	Belt, Deck Drive
51	04015-14	Capscrew, Socket Head 1/4-20 x 1.375"
52	04020-09	Hex Nut, 5/8-11
53	48087	Belt, Cutter Deck
54	422745	Belt Cover, RH
55	04001-62	Capscrew, Hex Head 3/8-16 x 3.25"
56	461174	Idler Arm Weldment
57	04001-51	Capscrew, Hex Head 3/8-16 x 3.75"
58	461054	Discharge Chute
59	04019-03	Nut, 5/16-18 Serrated Flange
60	481597	Spring, Deck Idler
61	04001-08	Bolt, Hex Head 5/16-18 x 4.25"
62	481050	Spring, Chute Return
63	04021-09	Nut, 3/8-16 Elastic Stop
64	04019-03	Nut, 5/16-18 Serrated Flange
65	04001-31	Bolt, Hex Head 3/8-16 x 2.50"
66	04063-08	Key, 1/4 x 1/4 x 2.0"
67	48550	Pulley, Idler
68	43510	Pivot, Idler - Long
69	422744	Belt Cover LH
70	04110-03	U-Nut, 3/8-16

* Common hardware which should be purchased locally. All bolts are Grade 5 plated, all other fasteners zinc plated.

36" DECK FRAME



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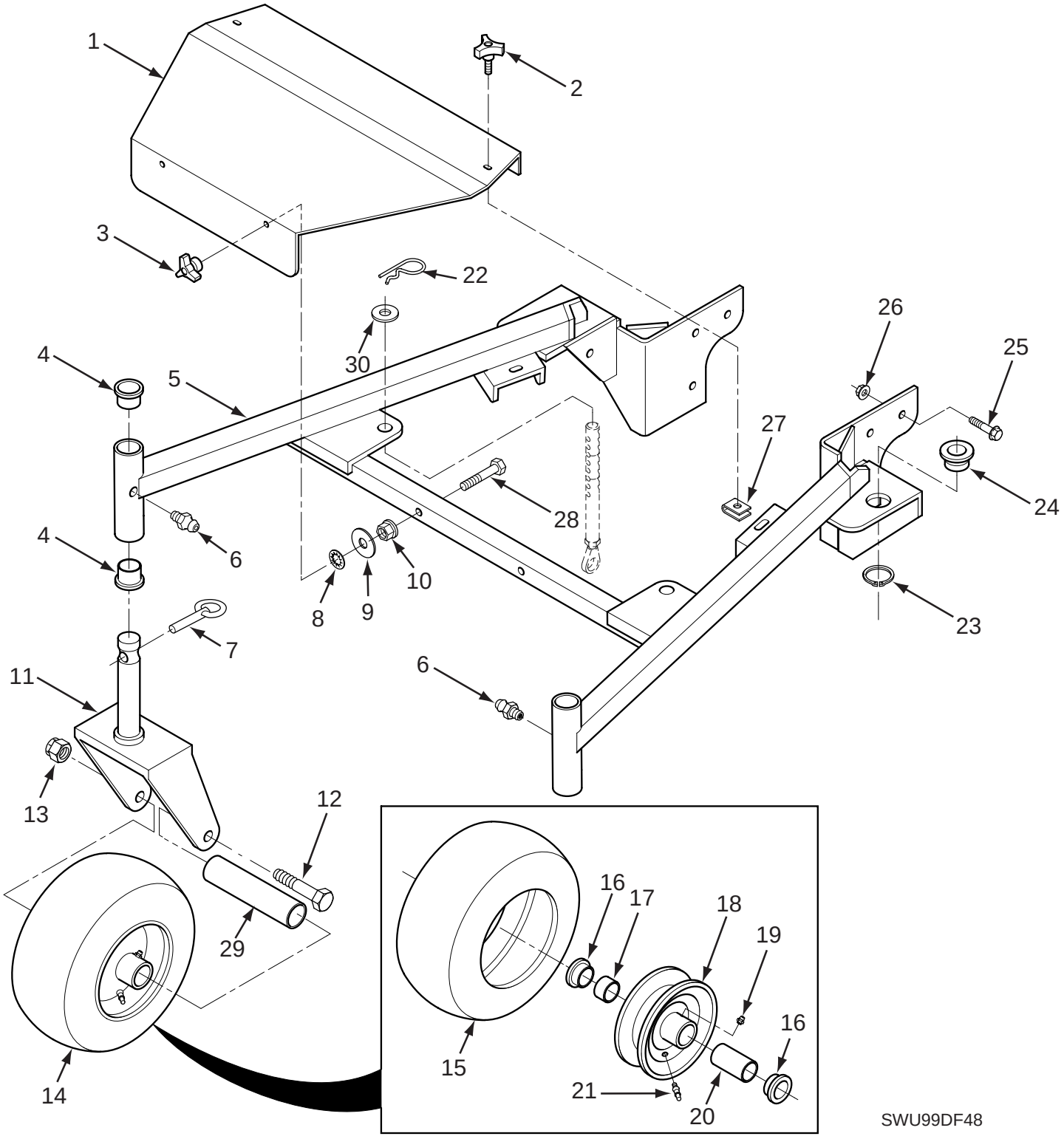
36" DECK FRAME

Ref. No.	Part No.	Description
1	461170	Belt Cover With Decal
2	481625-01	Knob With Stud
3	04029-03	Knob, Deck Cover Mounting
4	46163	Bushing, Caster
5	451097	Frame Weldment, Deck Mounting - 36"
6	04062-04	Hair Pin Cotter, .177 x 3.25"
7	48114-04	Grease Fitting Str. 1/4-28 Self Tap
8	04066-01	Quick Pin,.438 Dia
9	04024-02	Nut, Push-On - 3/8 Thd.
10	04041-07	Flatwasher, 3/8 - (.391 x .938 x .105)
11	04019-04	Nut, 3/8-16 Serrated Flange Hex Head
12	45325	Yoke, Caster Wheel
13	04001-80	Capscrew, Hex Head 1/2-13 x 6.50"
14	04021-07	Locknut, 1/2-13 Elastic Stop
15	481843	Wheel Assembly, Caster
16	481845	Tire, 11 x 4.00-5
17	481770	Retainer
18	481846	Roller Bearing
19	481844	Rim, 5.0 x 2.75 With Zerk & Valve
20	48114-05	Grease Fitting Str.1/4-28
21	481769	Roller Bearing .625 x 3.25"
22	04001-46	Capscrew, Hex Head 3/8-16 x 2.25"
23	**	Tire Valve, Purchase Locally
24	04050-16	Retaining Ring 1.50 Ext.
25	43530	Bushing, Deck Adjustment Pin
26	04017-42	Capscrew, Hex Head 7/16-14 x 1.0"
27	04019-05	Nut, 7/16-14 Serrated Flange Hex
28	04110-03	U-Nut, 3/8-16
29	43511	Sleeve, Caster Wheel
30	04040-10	Flatwasher, 5/8 - (.688 x 1.75 x .134)

* Common hardware which should be purchased locally. All bolts are Grade 5 plated, all other fasteners zinc plated.
** Purchase Locally.

48" DECK FRAME

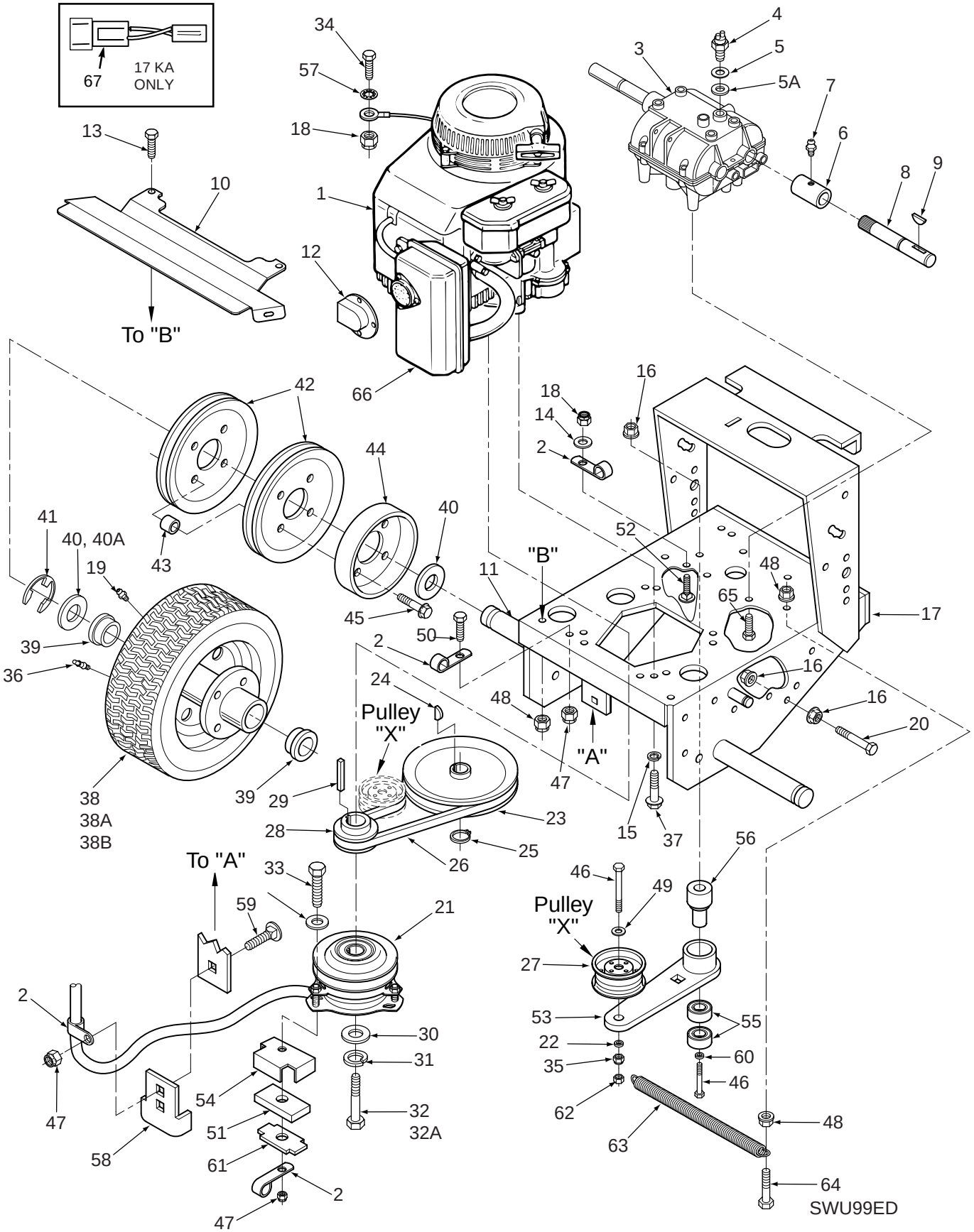


48" DECK FRAME

Ref. No.	Part No.	Description
1	461171	Belt Cover With Decal
2	481625-01	Knob With Stud
3	04029-03	Knob, Deck Cover Mounting
4	46163	Bushing, Caster
5	451098	Frame Weldment, Deck Mounting - 48"
6	48114-04	Grease Fitting Str. 1/4-28 Self Tap
7	04066-01	Quick Pin,.438 Dia
8	04024-02	Nut, Push-On - 3/8 Thd.
9	04041-07	Flatwasher, 3/8 (.391 x .938 x .105)
10	04019-04	Nut, 3/8-16 Serrated Flange Hex Head
11	45325	Yoke, Caster Wheel
12	04001-80	Capscrew, Hex Head 1/2-13 x 6.50"
13	04021-07	Locknut, 1/2-13 Elastic Stop
14	481843	Wheel Assembly, Caster
15	481845	Tire, 11 x 4.00-5
16	481770	Retainer
17	481846	Roller Bearing
18	481844	Rim, 5.0 x 2.75 With Zerk & Valve
19	48114-05	Grease Fitting Str.1/4-28
20	481769	Roler Bearing .625 x 3.25"
21	*	Tire Valve, Purchase Locally
22	04062-04	Hair Pin Cotter, .177 x 3.25"
23	04050-16	Retaining Ring 1.50 Ext.
24	43530	Bushing, Deck Adjustment Pin
25	04017-42	Capscrew, Hex Head 7/16-14 x 1.0"
26	04019-05	Nut, 7/16-14 Serrated Flange Hex
27	04110-03	U-Nut, 3/8-16
28	04001-46	Capscrew, Hex Head 3/8-16 x 2.25"
29	43511	Sleeve, Caster Wheel
30	04040-10	Flatwasher, 5/8 - (.688 x 1.75 x .134)

* Common hardware which should be purchased locally. All bolts are Grade 5 plated, all other fasteners zinc plated.

ENGINE DECK

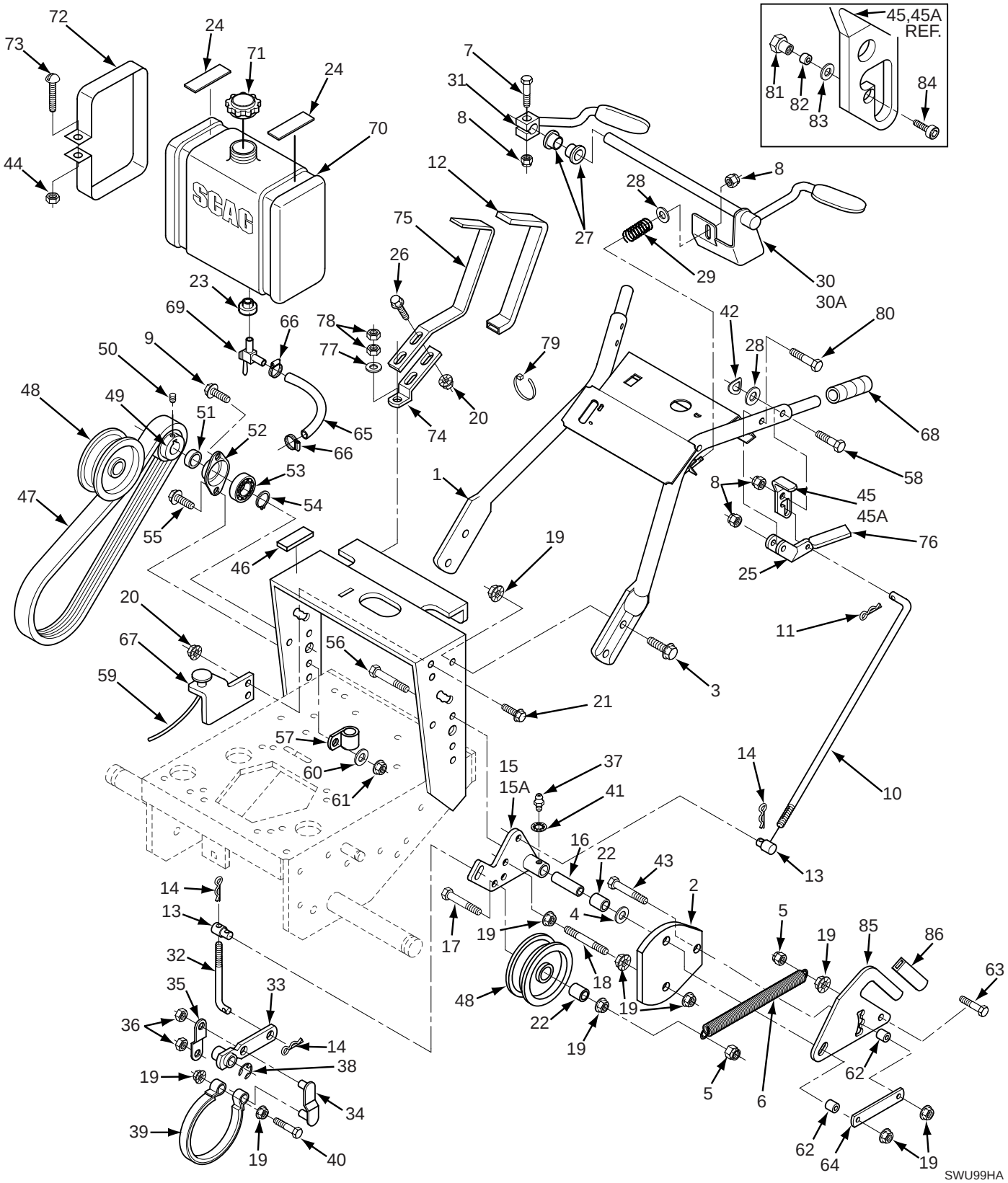


ENGINE DECK

Ref. No.	Part No.	Description
1	481757	Engine,15HP Kohler (CV 15T, Spec PS-41581)
1	481563	Engine, 17HP Kawasaki (FH500V)
2	48030-09	Cable Clamp
3	481580	Transmission, 5-speed (Peerless 700-070, 9 spline)
4	48231	Neutral Safety Switch
5	48122-01	Fibre Washer, thin
5A	48122-02	Fibre Washer, thick
6	481581	Coupler, Jackshaft
7	48114-05	Grease Fitting, straight 1/4-28
8	481582	Jackshaft (fits SW32,36 & 48)
9	04063-09	Key, Hi-Pro #9
10	422737	Heat Shield
11	43085	Wheel Axle (SW36,48) *
12	481848	Exhaust Deflector (Kohler Only)
13	04017-16	Bolt, 5/16-18 X .75" Serrated Flange Hex Head
14	04040-14	Flat Washer 1/4" (.312 X .75 X .065)
15	04030-03	Lock Wshr. 5/16"
16	04019-04	Nut, 3/8-16 Serrated Flange
17	46765	Engine Deck
18	04021-08	Nut, 1/4-20 Elastic Stop
19	48114-04	Grease Fitting, 1/4-28 Self Tap
20	04001-51	Bolt, 3/8-16 x 3-3/4" Hex Head
21	461073	Electric Clutch (Ogura)
22	04041-07	Washer, 3/8" (.391 x .938 x .105)
23	48197	Pulley, Transmission Input
24	04063-07	Key, Woodruff #9
25	04050-09	Retaining Ring, 5/8" Ext, Basic
26	48203	Belt, Transmission Drive
27	481048	Idler Pulley, Transmission
28	481666	Pulley, Traction Drive
29	04063-19	Key, 1/4 x 1/4 x 3/4"
30	04041-28	Flat Washer, 7/16" Special
31	04030-05	Lock Washer,7/16"
32	04001-101	Bolt, 7/16-20 x 2-1/2" Hex Head (Kohler Only)
32A	04002-15	Cpsrw, M10-1.5 x 55 Metric Hex Hd (Kawasaki)
33	04001-12	Bolt, 5/16-18 x 1-3/4" Hex Head
34	04002-07	Bolt, M8-1.25 x 1.0
35	04021-09	Nut, 3/8-16 Elastic Stop
36		Valve Stem, Purchase Localy
37	04018-01	Bolt, M8-1.25 x M25 Metric Hex Hd
38	48192	Wheel Assembly (incl. 38A-38B)
38A	481860	Tire, 13 x 6.50-6, 2-ply
38B	481859	Rim & Bearing Assembly (incl. 39)
39	481858	Wheel Brng. NWC (OD 1.984 - 1.980)
40	04042-05	Washer, 1-1/16 x 1-3/4 x 12 ga
40A	04041-14	Washer, 1-1/16 x 1-1/2 x 18 ga
41	04050-08	Retaining Ring, 1" Ext.- "E"
42	48200	Pulley, Wheel Drive
43	43088	Spacer, Wheel Pulley
44	48209	Brake Drum
45	04017-19	Bolt, 5/16-18 x 1-1/2" Serrated Flange
46	04001-22	Capscrew, Hex Head 3/8-16 x 2.75"
47	04021-10	Nut, 5/16-18 Elastic Stop
48	04019-03	Nut, 5/16-18 Serrated Flange Hex Head
49	04041-07	Flatwasher, 3/8 (.391 x .938 x .105)
50	04001-08	Bolt, 5/16-18 x .75" Hex Head
51	481716	Rubber Pad, Clutch Stop
52	04003-02	Bolt, 1/4-20 x .75" Carriage
53	461169	Idler Arm, Trans. Drive
54	422533	Backing Plate
55	48224	Ball Bearing
56	43504	Hub Idler Pivot
57	04031-09	Lock Washer Internal Tooth
58	421370	Anti Rotation Bracket
59	04003-04	Bolt, 5/16-18 x 1" Carriage
60	04043-04	Flatwasher, 3/8 (.391 x .938 x .105 HD)
61	422534	Plate, Backing
62	04021-05	Nut, 3/8-16 Elastic Stop
63	481835	Spring, Return Drive Idler
64	04001-02	Bolt, Hex Head 3/8-16 x 2.75"
65	04017-16	Capscrew, 5/16-18 x .75 Serrated Flange Hex Head
66	12-068-64	Muffler, Kohler (Purchase from Kohler Only)
66	49070-7002	17KA Muffler (Purchase from Kawasaki Only)
67	481717	Wire Harness Adaptor, 17KA

* = Requires welding onto chassis.

HANDLE ASSEMBLY

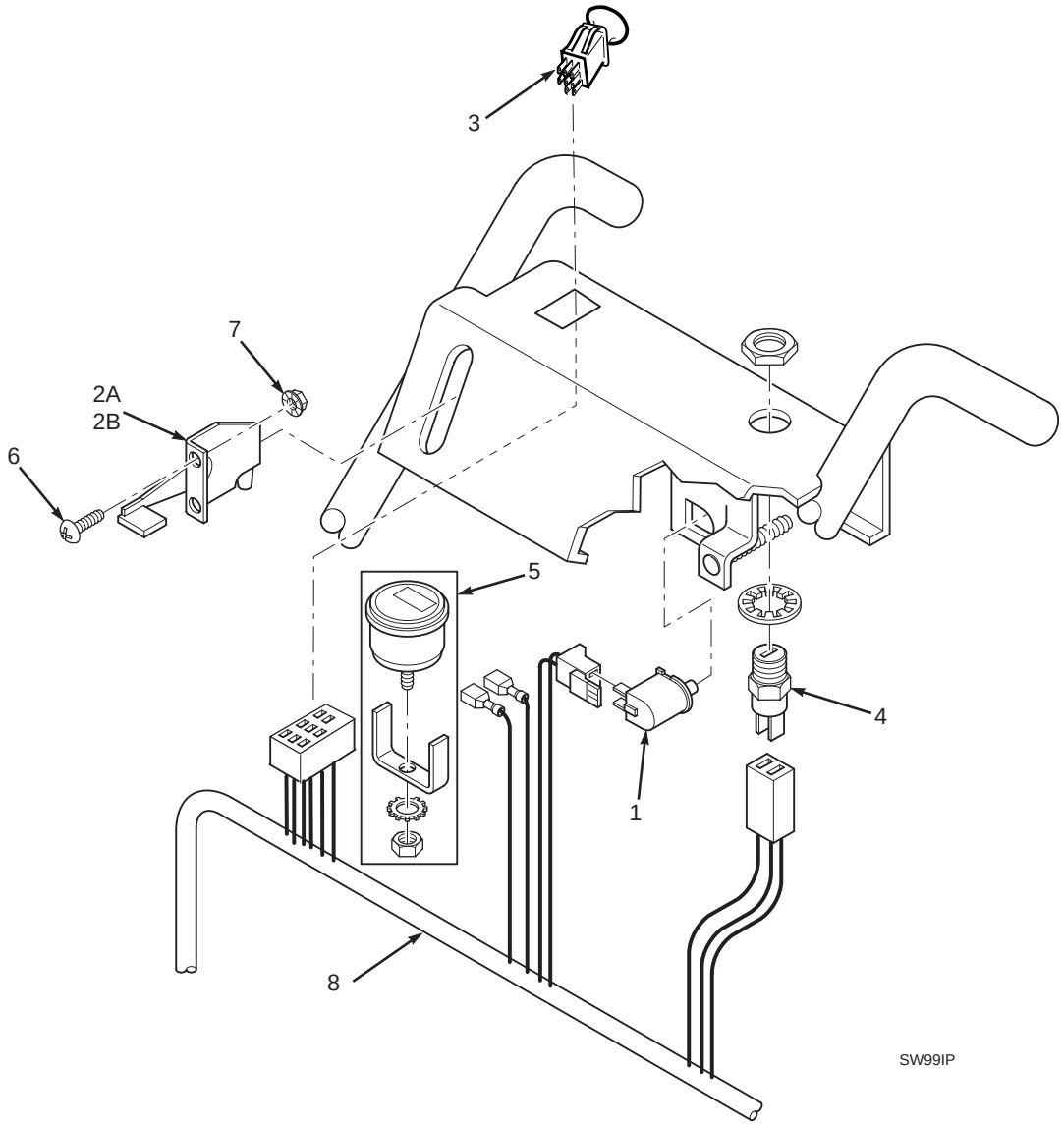


HANDLE ASSEMBLY

Ref. No.	Part No.	Description	15KH	17KA
1	461126	Handle Assembly 16" Frame	x	x
2	421360	Belt Guard	x	x
3	04017-27	Capscrw, 3/8-16 x 1" Ser. Flange	x	x
4	04041-07	Flatwasher, 3/8 (.391 x .938 x .105)	x	x
5	04021-09	Nut, 3/8-16 Elastic Stop	x	x
6	481834	Spring, Idler	x	x
7	04001-10	Bolt, 5/16-18 x 1-1/4" Hex Head	x	x
8	04021-10	Nut, 5/16-18 Elastic Stop	x	x
9	04017-05	Capscrew, 1/4-20 x 3/4" Hex Head	x	x
10	44004	Control Rod, Steering	x	x
11	04062-02	Hair Pin, Small	x	x
12	481839	Grip, Shift Lever		
13	43032	Swivel Joint	x	x
14	04062-01	Hair Pin, Large .094 Diameter	x	x
15	45847	Idler Bracket, RH	x	x
15A	45846	Idler Bracket, LH	x	x
16	43092	Idler Sleeve	x	x
17	04001-62	Bolt, 3/8-16 x 3/4" Hex Head	x	x
18	04004-17	Support Belt Guard	x	x
19	04019-04	Nut, 3/8-16 Serrated Flange	x	x
20	04019-03	Nut, 5/16-18 Serrated Flange	x	x
21	04017-16	Cpscrw, 5/16-18 x .75" Ser. Flng.		x
22	43286	Spacer	x	x
23	48309	Bushing, Fuel Tank	x	x
24	48292	Rubber Pad, (Upper)	x	x
25	46089	Steering Lever	x	x
26	04017-17	Capscrew, 5/16-18 x 1" Ser. Flng.	x	x
27	48312	Bushing, Operator Presence	x	x
28	04040-15	Washer, 5/16 (.375 x .875 x .083)	x	x
29	48951	Spring, Operator Presence	x	x
30	45573	Operator Presence Lever, LH (Small Frame)	x	x
31	45572	Operator Presence Lever, RH	x	x
32	44005	Brake Rod	x	x
33	45092	Brake Lever	x	x
34	45093	Brake Link	x	x
35	42254	Brake Link Plate	x	x
36	04024-01	Nut, 3/8 Push-on	x	x
37	48114-05	Greese Fitting, Straight 1/4-28	x	x
38	04050-01	Retaining Ring, 5/8 Ext. "E"	x	x
39	48210	Brake Band	x	x
40	04001-45	Bolt, 3/8-16 x 2" Hex Head	x	x
41	04031-08	1/4" Internal Tooth Lockwasher	x	x
42	04032-01	Curved Spring Washer	x	x
43	04001-32	Bolt, Hex Head 3/8-16 x 1.25"	x	x
44	04020-02	Nut, 1/4-20 Hex	x	x
45	46942	Neutral Latch, RH	x	x
45A	46941	Neutral Latch, LH	x	x
46	48205	Rubber Pad (Lower)	x	x
47	48202A	Belt, Wheel Drive	x	x
48	48198	Idler Pulley, Wheel Drive	x	x
49	48199	Pulley, Jackshaft (Inc. 50)	x	x
50	04012-04	Setscrew, Hex Socket Knurl Cup Pt. 5/16-18 (nylock)	x	x
51	43098	Spacer, Jackshaft Pulley	x	x
52	48223	Flange, Jackshaft Bearing	x	x
53	48224	Bearing, Jackshaft	x	x
54	04050-09	Retaining Ring, 5/8 Ext. Basic	x	x
55	04017-06	Capscrew, 1/4-20 x 1" Ser. Flange	x	x
56	04001-62	Bolt, 3/8-16 x 3.25"	x	x
57	48030-09	Clamp	x	x
58	04001-17	Bolt, 5/16-18 x 2" Hex Head	x	x
59	481072	Choke Control		x
60	04040-15	Flatwasher, 5/16 (.375 x .875 x .083)	x	x
61	04021-02	Nut, 1/4-20 Elastic Stop	x	x
62	43212	Spacer	x	x
63	04001-32	Bolt, Hex Head 3/8-16 x 1.25"	x	x
64	422756	Bar	x	x
65	48058	Fuel Hose,1/4"ID, 10" (KH Only)	x	
65A	48058	Fuel Hose,1/4"ID, 20" (KA & Briggs)		x
66	48059-01	Clamp, Fuel Hose	x	x
67	421622	Bracket, Choke Mounting		x
68	48159	Grip, Handle	x	x
69	48308	Valve, Fuel Shut Off	x	x
70	46846	Fuel Tank Assy.(Incl. Bush. & Val.)	x	x
71	481603	Fuel Tank Cap	x	x
72	421239	Strap, Fuel Tank	x	x
73	04010-10	Screw, 1/4-20 x 2" Rnd Hd Slotted	x	x
74	422279	Shift Lever	x	x
75	461163	Shift Lever (Incl. Item 12)	x	x
76	48144	Grip, Steering Lever	x	x
77	04041-07	Washer, 3/8 (.391x .938 x .105)	x	x
78	04020-14	Nut, 3/8-24 UNF	x	x
79	48028-05	Cable Tie	x	x
80	04001-53	Bolt, 5/16-18 x 2-1/2"	x	x
81	481411	Bushing, Bearing Retainer	x	x
82	481420	Bearing	x	x
83	04041-23	Washer, #8-.170 x .375 x .032	x	x
84	04015-13	Capscrew, Socket Head #8-32 x .50"	x	x
85	422799	Lever, Traction Adjustment	x	x
86	481847	Grip, Traction Adjustment Lever	x	x

* Common hardware should be purchased locally. All bolts are Grade 5 plated, all other fasteners zinc plated.

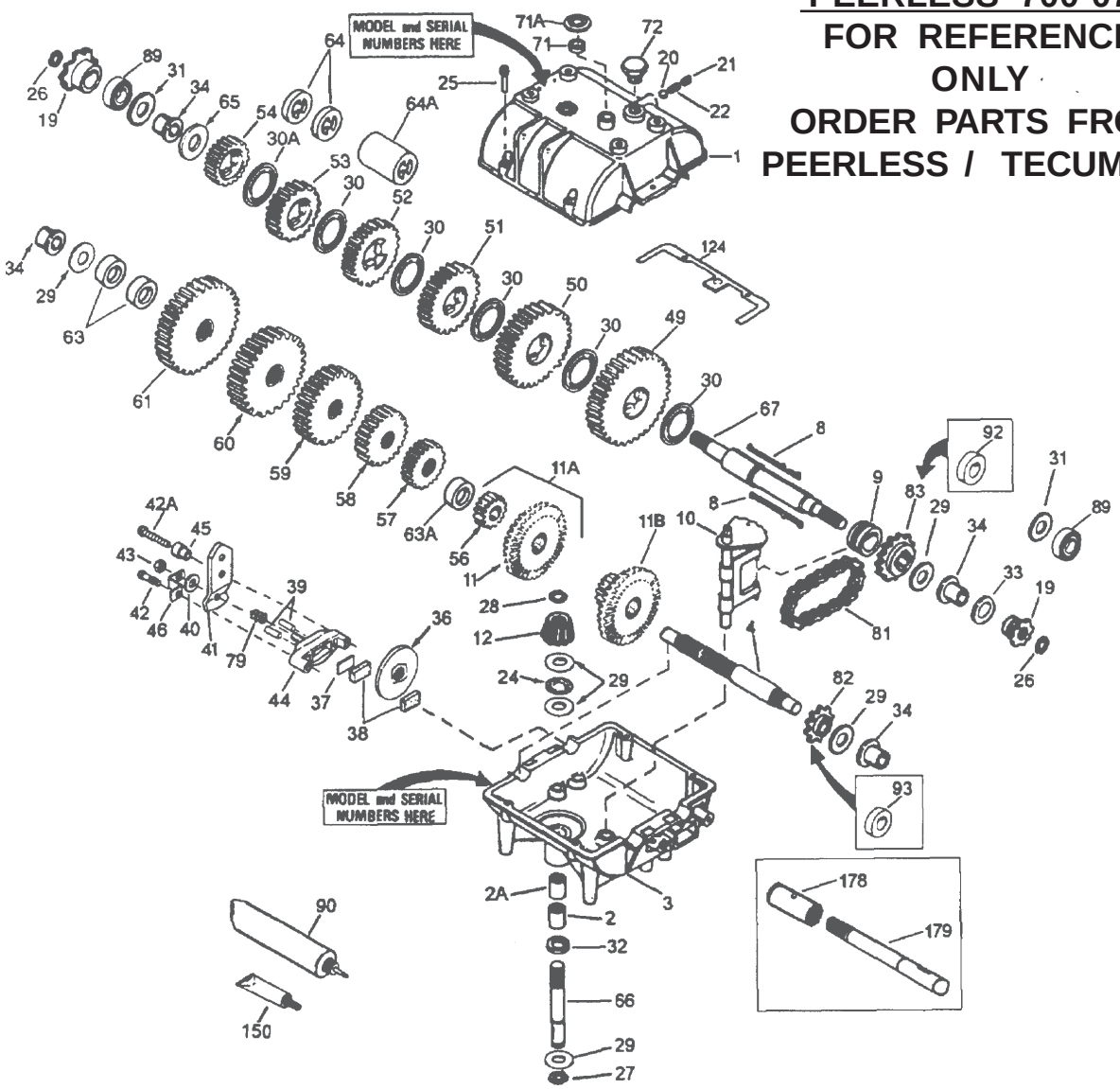
INSTRUMENT PANEL



Ref. No.	Part No.	Description	15KH	17KA
1	48717	Switch, Neutral Interlock	x	x
2A	481071	Throttle Control (15kh)	x	
2B	48946	Throttle Control (17KA)		x
3	481687	Engagement Switch, Electric Clutch	x	x
4	48609	Key Switch (Includes hardware)	x	x
5	48023	Hour Meter (dealer installed)	x	x
6	*	Screw, #10-32 x .50 Phillips Washer Head	x	x
7	04019-01	Nut, #10-32 Serrated Flange Hex Head	x	x
8	481678	Handle Wire Harness, Manual Start	x	x
NS	48030-09	Clamp, Wire Harness	x	x

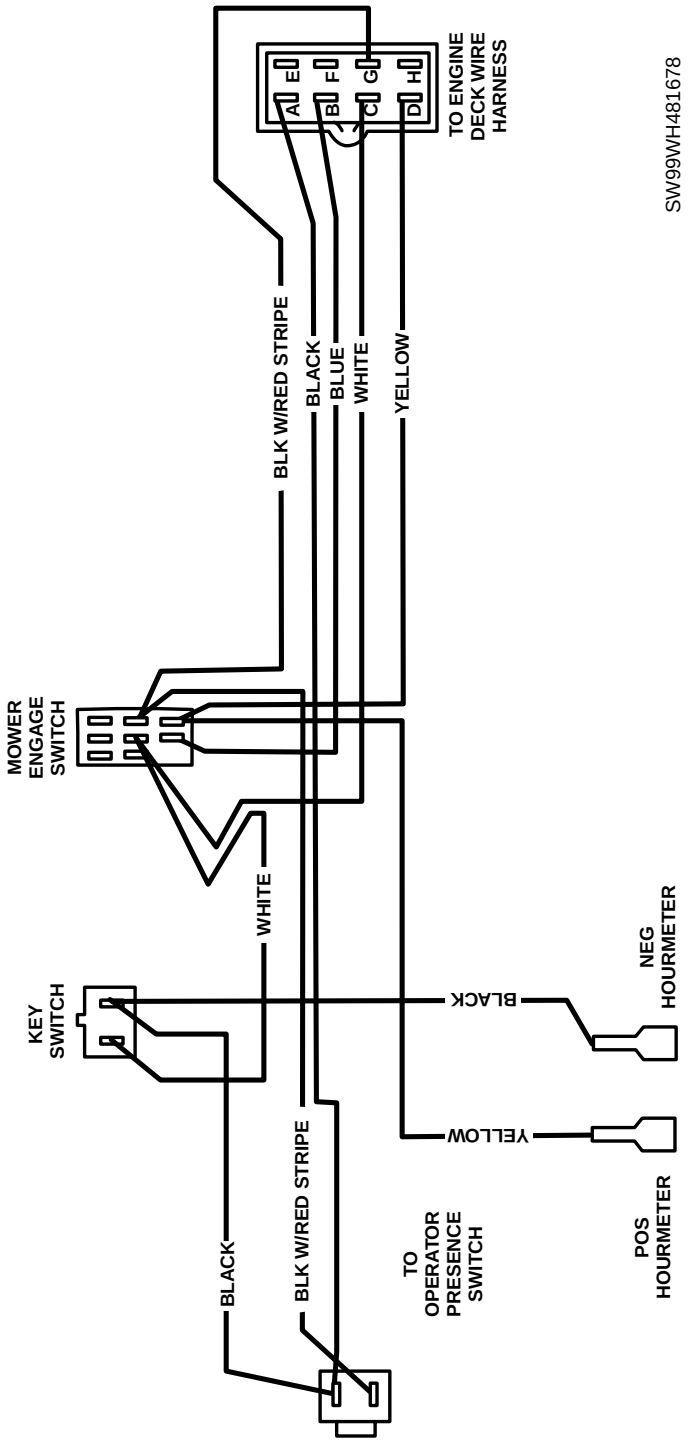
* Common hardware which should be purchased locally. All bolts grade 5 plated, all other fasteners zinc plated.

PEERLESS 700-070
FOR REFERENCE ONLY
ORDER PARTS FROM PEERLESS / TECUMSEH

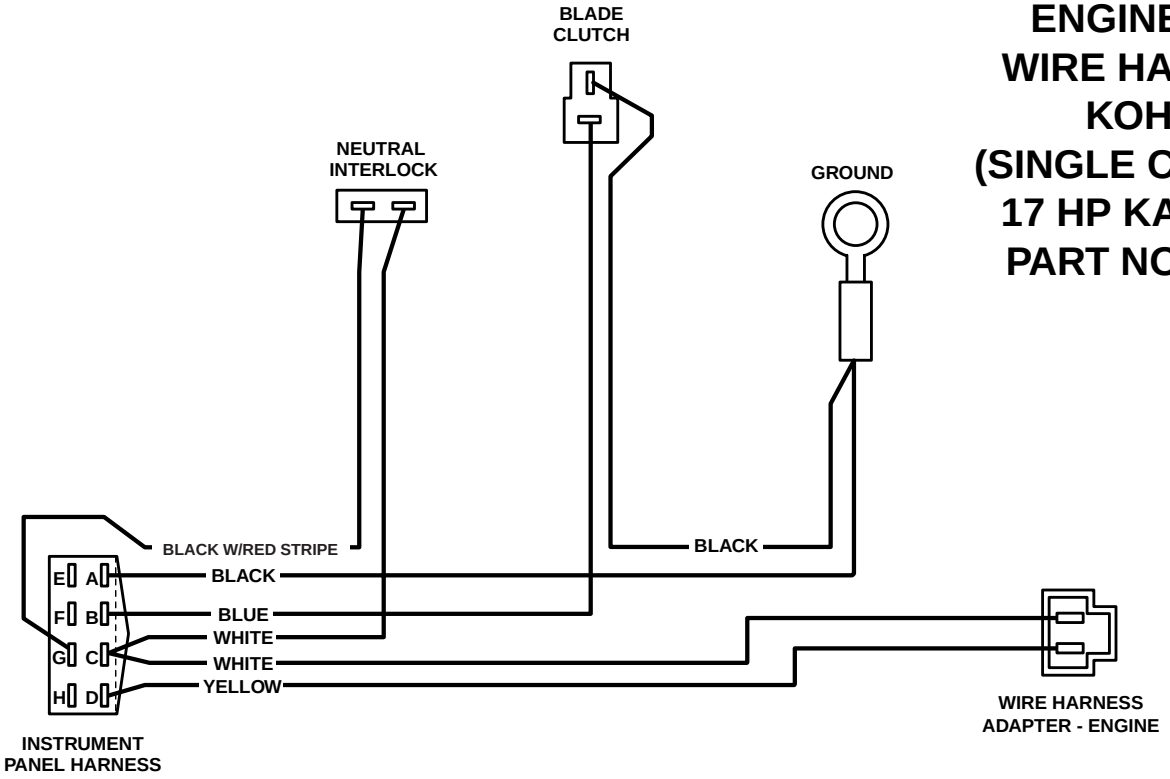


REF. NO.	PART NO.	DESCRIPTION
1	772083A	Case, Transmisson
2	780086A	Needle Bearing Grease Spec
2A	780142	Needle Bearing
3	770061A	Case, Transmission
8	792089A	Shift Key
9	784266	Shift Collar
10	784376	Shift Rod & Fork
11	778154	Bevel Gear (42 teeth)
12	778176	Bevel Pinion (14 teeth-steel)
20	792077	Steel Ball, 5/16" dia.
21	792078	Set Screw, 3/8-16 x 3/8"
22	792079	Spring
24	780071	Thrust Bearing
25	792073	Screw, 1/4-20 x 1-1/4" (6)
27	792035	Retaining Ring
28	788040	Retaining Ring
29	780072	Washer (6)
30	780108	Washer (5)
32	792001	"O" Ring
34	780105A	Flanged Bushing
49	778146A	Spur Gear (37 teeth)
50	778125	Spur Rear (35 teeth)
51	778239A	Spur Gear (32 teeth-steel)
52	778124A	Spur Gear (30 teeth)
53	778123A	Spur Gear (25 teeth)
56	778145	Spur Gear (12 teeth-steel)
57	778151	Spur Gear (15 teeth)
58	778240	Spur Gear (18 teeth-steel)
59	778126A	Spur Gear (20 teeth)
60	778127A	Spur Gear (25 teeth)
65	780139	Washer
66	776135	Input Shaft (3-11/16" long)
67	776402	Shifter & Brake Shaft
71	788069	Square Cut Ring
72	792074	Threaded Plug (Shipping only, not used)
81	786081	Roller Chain (No. 41 chain, 24 links)
82	786082	Sprocket (9 teeth)
83	786083	Sprocket (18 teeth)
90	788067B	Grease (32 oz. bottle Bentonite grease)
150	510334	Gasket Eliminator (Loctite #515)
178	481581	Coupler, Jackshaft (Purchase From Scag)
179	481582	Jackshaft (Purchase From Scag)

HANDLE WIRE HARNESS - MANUAL START PART NO. 481678

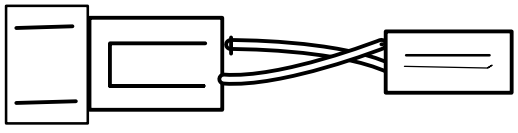


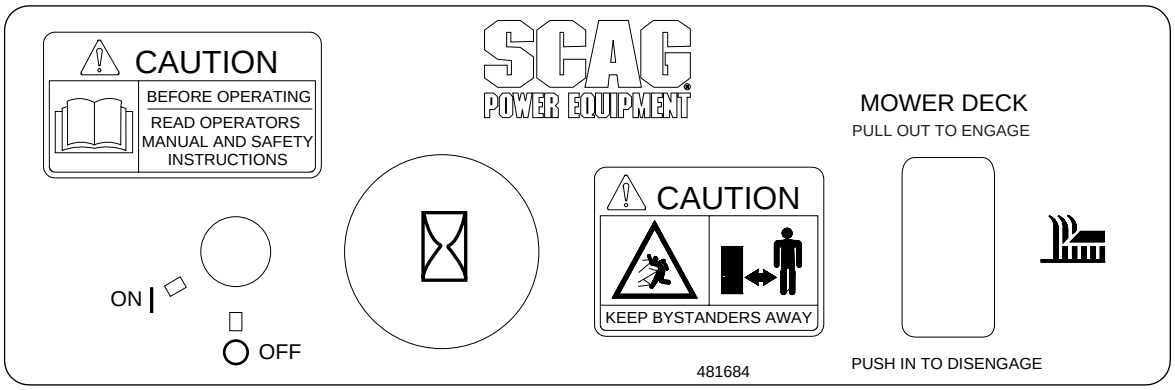
ENGINE DECK WIRE HARNESS - KOHLER (SINGLE CYLINDER) 17 HP KAWASAKI PART NO. 481073



SW99WH481073

WIRE HARNESS ADAPTER / KAWASAKI PART NO. 481717





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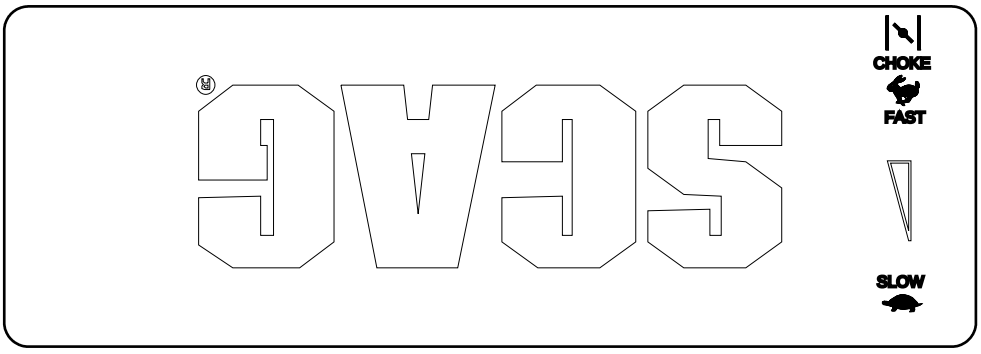
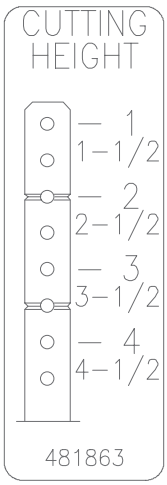


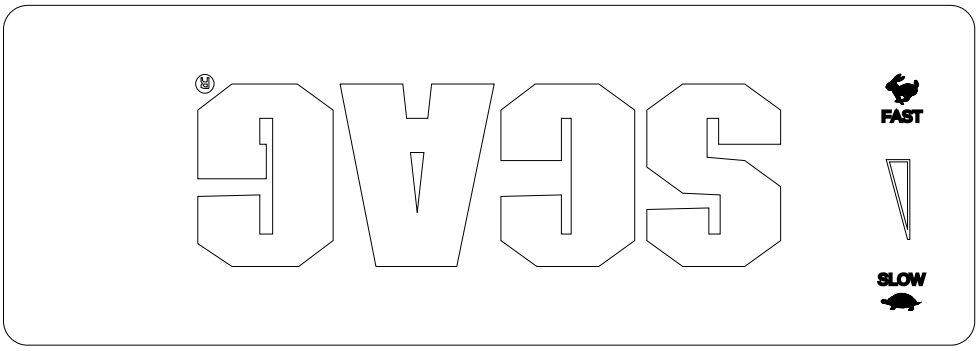
481122



481863

48314

481905



481483

48071

48404

481039

HEAVY DUTY COMMERCIAL

48072

MANUFACTURED UNDER ONE OR MORE OF THE FOLLOWING PATENTS:

4,487,006	4,991,382
4,885,903	4,998,948
4,920,733	4,118,617
4,967,543	

PATENTS PENDING

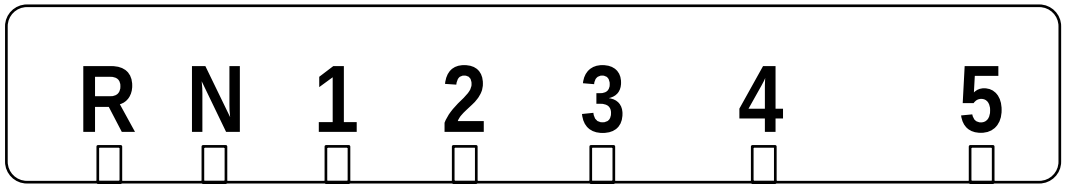
WARNING
ROTATING BLADES AND BELTS
• KEEP HANDS, FEET & CLOTHING CLEAR
• KEEP ALL GUARDS IN PLACE
• SHUT OFF ENGINE & DISENGAGE BLADE CLUTCH BEFORE SERVICING
• CLEAR AREA OF DEBRIS BEFORE MOWING
• USE CAUTION IN DIRECTING DISCHARGE
• KEEP BYSTANDERS, CHILDREN & PETS AWAY
• READ INSTRUCTION MANUAL BEFORE OPERATING
DO NOT OPERATE WITHOUT DISCHARGE CHUTE, MULCHING KIT, OR ENTIRE GRASS CATCHER INSTALLED
481040

481040

48

36" - 48316
48" - 48318

481109



48332

LIMITED WARRANTY-COMMERCIAL EQUIPMENT

Any part of the Scag commercial mower manufactured by Scag Power Equipment and found, in the reasonable judgment of Scag, to be defective in materials or workmanship, will be repaired or replaced by an Authorized Scag Service Dealer without charge for parts and labor. This warranty is limited to the original purchaser and is not transferable. Proof of purchase will be required by the dealer to substantiate any warranty claims. All warranty work must be performed by an Authorized Scag Service Dealer.

This warranty is limited to the following specified periods from the date of the original retail purchase for defects in materials or workmanship:

* Wear items including drive belts, blades, hoses and tires are warranted for 90 days.
* Batteries are covered for 90 days.
* Frame, deck, and structural components including oil reservoir, fittings, and oil cooler are warranted for 1 year.
* Engines and electric starters are covered by the manufacturer's warranty period.
* Drive system components are warranted for 1 year by the component manufacturer, in conjunction with Scag Power Equipment. (excluding fittings, hoses, cooling system, oil reservoir, drive belts).
* Electric clutches have a Limited Warranty for 2 year.
* Cutter Spindle Assemblies 46631 have a Limited Warranty for 3 years (parts and labor 1st year; parts only 2nd and 3rd year).

Any Scag product used for rental purposes is covered by a 90 day warranty.

The Scag mower, including any defective part must be returned to an Authorized Scag Service Dealer within the warranty period. The expense of delivering the mower to the dealer for warranty work and the expense of returning it to the owner after repair will be paid for by the owner. Scag's responsibility is limited to making the required repairs and no claim of breach of warranty shall be cause for cancellation or rescission of the contract of sale of any Scag mower.

This warranty does not cover any mower that has been subject to misuse, neglect, negligence, or accident, or that has been operated in any way contrary to the operating instructions as specified in the Operator's Manual. The warranty does not apply to any damage to the mower that is the result of improper maintenance, or to any mower or parts that have not been assembled or installed as specified in the Operator's Manual and Assembly Manual. The warranty does not cover any mower that has been altered or modified, changing performance or durability. In addition, the warranty does not extend to repairs made necessary by normal wear, or by the use of parts or accessories which, in the reasonable judgment of Scag, are either incompatible with the Scag mower or adversely affect its operation, performance or durability.

Scag Power Equipment reserves the right to change or improve the design of any mower without assuming any obligation to modify any mower previously manufactured.

All other implied warranties are limited in duration to the one (1) year warranty period or ninety (90) days for mowers used for rental purpose. Accordingly, any such implied warranties including merchantability, fitness for a particular purpose, or otherwise, are disclaimed in their entirety after the expiration of the appropriate one year or ninety day warranty period. Scag's obligation under this warranty is strictly and exclusively limited to the repair or replacement of defective parts and Scag does not assume or authorize anyone to assume for them any other obligation. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

Scag assumes no responsibility for incidental, consequential or other damages including, but not limited to, expense for gasoline, expense of delivering the mower to an Authorized Scag Service Dealer and expense of returning it to the owner, mechanic's travel time, telephone or telegram charges, rental of a like product during the time warranty repairs are being performed, travel, loss or damage to personal property, loss of revenue, loss of use of the mower, loss of time or inconvenience. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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